

[Document Name] CLAIMS

[Claim 1]

A data extraction supporting system, comprising: a plurality of user terminals each having a storage device, a display device, and an input device; and a server computer which
5 can communicate with each user terminal through an information and communication network,

characterized in that the server computer functions as a data extraction supporting device which can access an information database for storing user identification data for
10 identifying the user using a user terminal, extraction candidate data, and history corresponding data corresponding to the history in which the extraction candidate data have been selected by the user in association with one another, and

15 which has an extraction candidate data deciding/transmitting means for deciding extraction candidate data corresponding to the history corresponding data for each user, reading the extraction candidate data from the information database, and transmitting the extraction
20 candidate data to a corresponding user terminal on condition that the history corresponding data satisfies a specific transmission decision criterion; a history corresponding data updating means for receiving information about whether or not the extraction candidate data transmitted to the user terminal
25 by the extraction candidate data deciding/transmitting means and displayed on the display device of the user terminal were selected by the user, and updating the history corresponding

data in the information database based on the received information; and an extraction data deciding means for deciding the extraction candidate data corresponding to the history corresponding data as extraction data for the user on condition
5 that the history corresponding data updated by the history corresponding data updating means satisfies a specific extraction decision criterion.

[Claim 2]

10 A data extraction supporting device for use in a system having a plurality of user terminals each having a storage device, a display device, and an input device; and a data extraction supporting device which can communicate with each user terminal through an information and communication network,
15 characterized in that the data extraction supporting device can access an information database for storing user identification data for identifying the user using a user terminal, extraction candidate data, and history corresponding data corresponding to the history in which the extraction
20 candidate data have been selected by the user in association with one another, and

has an extraction candidate data deciding/transmitting means for deciding extraction candidate data corresponding to the history corresponding data for each user, reading the
25 extraction candidate data from the information database, and transmits the extraction candidate data to a corresponding user terminal on condition that the history corresponding data

satisfies a specific transmission decision criterion; a history corresponding data updating means for receiving information about whether or not the extraction candidate data transmitted to the user terminal by the extraction candidate data
5 deciding/transmitting means and displayed on the display device of the user terminal were selected by the user, and updating the history corresponding data in the information database based on the received information; and an extraction data deciding means for deciding the extraction candidate data
10 corresponding to the history corresponding data as extraction data for the user on condition that the history corresponding data updated by the history corresponding data updating means satisfies a specific extraction decision criterion.

15 [Claim 3]

A program for causing a server computer for use in a system having a plurality of user terminals each having a storage device, a display device, and an input device and a server computer which can communicate with each user terminal through
20 an information and communication network

to function as a data extraction supporting device which can access an information database for storing user identification data for identifying the user using a user terminal, extraction candidate data, and history corresponding
25 data corresponding to the history in which the extraction candidate data have been selected by the user in association with one another, and

which has an extraction candidate data deciding/transmitting means for deciding extraction candidate data corresponding to the history corresponding data for each user, reading the extraction candidate data from the information database, and transmitting the extraction candidate data to a corresponding user terminal on condition that the history corresponding data satisfies a specific transmission decision criterion; a history corresponding data updating means which receives information about whether or not the extraction candidate data transmitted to the user terminal by the extraction candidate data deciding/transmitting means and displayed on the display device of the user terminal were selected by the user, and updates the history corresponding data in the information database based on the received information; and an extraction data deciding means for deciding the extraction candidate data corresponding to the history corresponding data as extraction data for the user on condition that the history corresponding data updated by the history corresponding data updating means satisfies a specific extraction decision criterion.

[Claim 4]

A recording medium wherein the program according to Claim 3 has been stored.

[Claim 5]

The system according to Claim 1,

characterized in that the extraction decision criterion is equivalent to the condition that the extraction candidate data displayed on the display device of the user terminal have been selected n times ($n \geq 3$) in a row by the user, and

5 in that the transmission decision criterion is equivalent to the condition that the extraction candidate data are undisplayed data which have never been displayed on the display device of the user terminal or previous time selected data which were selected by the user last time when the data were displayed
10 on the display device of the user terminal.

[Claim 6]

The system according to Claim 5,

characterized in that the transmission decision criterion
15 is set such that the period from the $(i+1)$ -th to $(i+2)$ -th display on the display device of the user terminal is longer than the period from the i -th to $(i+1)$ -th display under the condition that $1 \leq i \leq n - 2$.

20 [Claim 7]

The system according to Claim 5,

characterized in that when the extraction candidate data transmitted to the user terminal by the extraction candidate data deciding/transmitting means and displayed on the display
25 device of the user terminal were not selected by the user, the history corresponding data updating means changes the history corresponding data corresponding to the extraction candidate

data to data which are dealt with in substantially the same way as undisplayed data.

[Claim 8]

5 The system according to Claim 1,
characterized in that the data extraction supporting device and the user terminal communicate with each other through the information and communication network every predetermined time period,
10 in that the extraction candidate data deciding/transmitting means reads extraction candidate data which satisfy the transmission decision criterion for the predetermined time period collectively and transmits the extraction candidate data to the user terminal, and
15 in that the history corresponding data updating means receives information about whether or not the extraction candidate data transmitted to the user terminal and displayed on the display device of the user terminal were selected by the user for the predetermined time period collectively and updates
20 the history corresponding data in the information database based on the received information.

[Claim 9]

25 The system according to Claim 1,
characterized in that the system further includes an administrator terminal which can communicate with the server computer through the information and communication network, and

in that the data extraction supporting device has a transmission
decision criterion setting means which sets the transmission
decision criterion based on transmission decision criterion
directing data transmitted from the administrator terminal
5 and/or the user terminal.

[Claim 10]

A data extraction supporting method carried out using a
system having a plurality of user terminals each having a
10 storage device, a display device, and an input device; and a
server computer which can communicate with each user terminal
through an information and communication network and which can
access an information database for storing user identification
data for identifying the user using a user terminal, extraction
15 candidate data, and history corresponding data corresponding
to the history in which the extraction candidate data have been
selected by the user in association with one another,
comprising:

an extraction candidate data deciding/transmitting step
20 of deciding extraction candidate data corresponding to the
history corresponding data for each user, reading the
extraction candidate data from the information database, and
transmitting the extraction candidate data to a corresponding
user terminal on condition that the history corresponding data
25 satisfies a specific transmission decision criterion;

a history corresponding data updating step of receiving
information about whether or not the extraction candidate data

transmitted to the user terminal in the extraction candidate data deciding/transmitting step and displayed on the display device of the user terminal were selected by the user, and updating the history corresponding data in the information
5 database based on the received information; and

an extraction data deciding step of deciding the extraction candidate data corresponding to the history corresponding data as extraction data for the user on condition that the history corresponding data updated in the history corresponding data
10 updating step satisfies a specific extraction decision criterion.

[Claim 11]

The device according to Claim 2,
15 characterized in that the extraction decision criterion is equivalent to the condition that the extraction candidate data displayed on the display device of the user terminal have been selected n times ($n \geq 3$) in a row by the user, and

in that the transmission decision criterion is equivalent
20 to the condition that the extraction candidate data are undisplayed data which have never been displayed on the display device of the user terminal or previous time selected data which were selected by the user last time when the data were displayed on the display device of the user terminal.

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[Claim 12]

The device according to Claim 11,

characterized in that the transmission decision criterion is set such that the period from the (i+1)-th to (i+2)-th display on the display device of the user terminal is longer than the period from the i-th to (i+1)-th display under the condition
5 that $1 \geq i \geq n - 2$.

[Claim 13]

The device according to Claim 11,
characterized in that when the extraction candidate data
10 transmitted to the user terminal by the extraction candidate data deciding/transmitting means and displayed on the display device of the user terminal were not selected by the user, the history corresponding data updating means changes the history corresponding data corresponding to the extraction candidate
15 data to data which are dealt with in substantially the same way as undisplayed data.

[Claim 14]

The device according to Claim 2,
20 characterized in that the data extraction supporting device and the user terminal communicate with each other through the information and communication network every predetermined time period,
in that the extraction candidate data
25 deciding/transmitting means reads extraction candidate data which satisfy the transmission decision criterion for the predetermined time period collectively and transmits the

extraction candidate data to the user terminal, and

in that the history corresponding data updating means receives information about whether or not the extraction candidate data transmitted to the user terminal and displayed on the display device of the user terminal were selected by the user for the predetermined time period collectively and updates the history corresponding data in the information database based on the received information.

10 [Claim 15]

The device according to Claim 2,

characterized in that the system further includes an administrator terminal which can communicate with the server computer through the information and communication network, and in that the data extraction supporting device has a transmission decision criterion setting means which sets the transmission decision criterion based on transmission decision criterion directing data transmitted from the administrator terminal and/or the user terminal.

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[Claim 16]

The program according to Claim 3,

characterized in that the extraction decision criterion is equivalent to the condition that the extraction candidate data displayed on the display device of the user terminal have been selected n times ($n \geq 3$) in a row by the user, and

in that the transmission decision criterion is equivalent

to the condition that the extraction candidate data are
undisplayed data which have never been displayed on the display
device of the user terminal or previous time selected data which
were selected by the user last time when the data were displayed
5 on the display device of the user terminal.

[Claim 17]

The program according to Claim 16,
characterized in that the transmission decision criterion
10 is set such that the period from the (i+1)-th to (i+2)-th display
on the display device of the user terminal is longer than the
period from the i-th to (i+1)-th display under the condition
that $1 \leq i \leq n - 2$.

15 [Claim 18]

The program according to Claim 16,
characterized in that when the extraction candidate data
transmitted to the user terminal by the extraction candidate
data deciding/transmitting means and displayed on the display
20 device of the user terminal were not selected by the user, the
history corresponding data updating means changes the history
corresponding data corresponding to the extraction candidate
data to data which are dealt with in substantially the same way
as undisplayed data.

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[Claim 19]

The program according to Claim 3,

characterized in that the data extraction supporting device and the user terminal communicate with each other through the information and communication network every predetermined time period,

5 in that the extraction candidate data deciding/transmitting means reads extraction candidate data which satisfy the transmission decision criterion for the predetermined time period collectively and transmits the extraction candidate data to the user terminal, and

10 in that the history corresponding data updating means receives information about whether or not the extraction candidate data transmitted to the user terminal and displayed on the display device of the user terminal were selected by the user for the predetermined time period collectively and updates
15 the history corresponding data in the information database based on the received information.

[Claim 20]

The program according to Claim 3,
20 characterized in that the system further includes an administrator terminal which can communicate with the server computer through the information and communication network, and in that the data extraction supporting device has a transmission decision criterion setting means which sets the transmission
25 decision criterion based on transmission decision criterion directing data transmitted from the administrator terminal and/or the user terminal.